

Docket: 7210.03

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor:	James L. Madara	
Application No.:	10/762,388	
Filing Date:	January 22, 2004	Examiner: Unknown
Title:	Modulation of Inflammation Related to Columnar Epithelia	Group Art Unit: Unknown

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR § 1.97(b)**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

I hereby certify that this document is being sent via First Class U.S. mail addressed to: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450 on this 23 day of April, 2004

Barbara A. Avery

(Signature)

Dear Sir:

Pursuant to 37 CFR § 1.97(b), the references listed on the attached Form PTO-1449 (4 sheets, submitted in duplicate) are brought to the attention of the Examiner for consideration in connection with the examination of the above-identified patent application. This IDS is being filed before the mailing of a first office action on the merits. In accordance with 37 CFR § 1.97(b), no statement or fee is required.

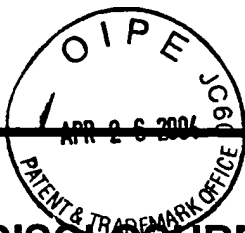
Copies of the references cited are not enclosed, as allowed under 37 CFR § 1.98(d). Each item on the enclosed Form PTO-1449 was cited to, or cited by, the Office in U.S. Patent No. 6,353,026, issued on March 5, 2002 to which priority is claimed under 35 U.S.C. § 120, in the present application.

Respectfully submitted,

DORSEY & WHITNEY LLP
Customer Number 25763

Date: April 23, 2004

By: Scott D. Rothenberger
Scott D. Rothenberger, (Reg. No. 41,277)
Intellectual Property Department
Suite 1500, 50 South Sixth Street
Minneapolis, MN 55402-1498
(612) 340-8819



Substitute for form 1449A/PTO

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(use as many sheets as necessary)

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Sheet 1 of 4

U.S. PATENT DOCUMENTS

*Examiner Initials	Cite No.	DOCUMENT NUMBER Number - Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 5,441,951	8-1995	Serhan	
		US- 5,648,512	7-1997	Serhan	
		US- 6,353,026	3-2002	Serhan	
		US- 6,458,839	10-2002	Madara et al.	
		US- 6,699,905	3-2004	Madara et al.	
		US-			

FOREIGN PATENT DOCUMENTS

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		Country Code:	Number - Kind Code (if known)				YES	NO
		PCT	WO 94/29262	12-1994			<input type="checkbox"/>	<input type="checkbox"/>
		PCT	WO 95/01179	1-1995			<input type="checkbox"/>	<input type="checkbox"/>
		PCT	WO 00/54767	9-2000			<input type="checkbox"/>	<input type="checkbox"/>
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OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS

*Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	TRANSLATION	
			YES	NO
		Weissmann, G., Smolen, J. E., and Korchak, H. M. (1980) Release of inflammatory mediators from stimulated neutrophils. <i>N. Engl. J. Med.</i> 303, 27-34	<input type="checkbox"/>	<input type="checkbox"/>
		Serhan, C. N., Haeggstrom, J. Z., and Leslie, C. C. (1996) Lipid mediator networks in cell signaling: update and impact of cytokines. <i>FASEB J.</i> 10, 1147-1158	<input type="checkbox"/>	<input type="checkbox"/>
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		Serhan, C. N. (1994) Lipoxin biosynthesis and its impact in inflammatory and vascular events. <i>Biochim. Biophys. Acta</i> 1212, 1-25	<input type="checkbox"/>	<input type="checkbox"/>
		Borgeat, P., and Naccache, P. H. (1990) Biosynthesis and biological activity of leukotriene B ₄ . <i>Clin. Biochem.</i> 23, 459-468	<input type="checkbox"/>	<input type="checkbox"/>

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		Yokomizo, T., Izumi, T., Chang, K., Takuwa, T., and Shimizu, T. (1997) A G-protein-coupled receptor for leukotriene B ₄ that mediates chemotaxis. <i>Nature</i> 387, 620-624			<input type="checkbox"/>	<input type="checkbox"/>
		Fiore, S., Romano, M., Reardon, E. M., and Serhan, C. N. (1993) Induction of functional lipoxin A ₄ receptors in HL-60 cells. <i>Blood</i> 81, 3395-3403			<input type="checkbox"/>	<input type="checkbox"/>
		Isakson, P., Seibert, K., Masferrer, J., Salvemini, D., Lee, L., and Needleman, P. (1995) Discovery of a better aspirin. <i>Advances in Prostaglandin, Thromboxane & Leukotriene Research</i> 23, 49-54			<input type="checkbox"/>	<input type="checkbox"/>
		Chiang, N., Takano, T., Clish, C. B., Petasis, N. A., Tai, H.-H., and Serhan, C. N. (1998) Aspirin-triggered 15-epi-lipoxin A ₄ (ATL) generation by human leukocytes and murine peritonitis exudates: development of a specific 15-epi-LXA ₄ ELISA. <i>J. Pharmacol Exper. Ther.</i> 287, 779-790			<input type="checkbox"/>	<input type="checkbox"/>
		Serhan, C. N., Maddox, J. F., Petasis, N. A., Akritopoulou-Zanze, I., Papayianni, A., Brady, H. R., Colgan, S. P., and Madara, J. L. (1995) Design of lipoxin A ₄ stable analogs that block transmigration and adhesion of human neutrophils. <i>Biochemistry</i> 34, 14609-14615			<input type="checkbox"/>	<input type="checkbox"/>
		Takano, T., Fiore, S., Maddox, J. F., Brady, H. R., Petasis, N. A., and Serhan, C. N. (1997) Aspirin-triggered 15-epi-lipoxin A ₄ (LXA ₄) and LXA ₄ Stable analogues are potent inhibitors of acute inflammation: Evidence for anti-inflammatory receptors. <i>J. Exp. Med.</i> 185, 1693-1704			<input type="checkbox"/>	<input type="checkbox"/>
		Owman, C., Garzino-Demo, A., Cocchi, F., Popovic, M., Sabirsh, A., and Gallo, R. (1998) The leukotriene B ₄ receptor functions as a novel type of coreceptor mediating entry of primary HIV-1 isolates into CD4-positive cells. <i>Proc. Natl. Acad. Sci.</i> 95, 9530-9534			<input type="checkbox"/>	<input type="checkbox"/>
		Marcus, A. J. (1995) Aspirin as prophylaxis against colorectal cancer. <i>N. Engl. J. Med.</i> 333, 656-658			<input type="checkbox"/>	<input type="checkbox"/>
		Vainio, H., and Morgan, G. (1997) Aspirin for the second hundred years: new uses for an old drug. <i>Pharmacol Toxicol</i> 81, 151-152			<input type="checkbox"/>	<input type="checkbox"/>
		Herschman, H. R. (1998) Recent progress in the cellular and molecular biology of prostaglandin synthesis. <i>Trends in Cardiovasc. Med.</i> 8, 145-150			<input type="checkbox"/>	<input type="checkbox"/>
		Takano, T., Clish, C. B., Gronert, K., Petasis, N., and Serhan, C. N. (1998) Neutrophil-mediated changes in vascular permeability are inhibited by topical application of aspirin-triggered 15-epi-lipoxin A ₄ and novel lipoxin B ₄ stable analogues. <i>J. Clin. Invest.</i> 101, 819-826			<input type="checkbox"/>	<input type="checkbox"/>
		Billah, M. M., Eckel, S., Mullmann, T. J., Egan, R. W., and Siegel, M. I. (1989) Phosphatidylcholine hydrolysis by phospholipase D determines phosphatidate and diglyceride levels in chemotactic peptide-stimulated human neutrophils. Involvement of phosphatidate phosphohydrolase in signal transduction. <i>J. Biol. Chem.</i> 264, 17069-17077			<input type="checkbox"/>	<input type="checkbox"/>
		Wakelam, M. J. O., Martin, A., Hodgkin, M. N., Brown, F., Pettit, T. R., Cross, M. J., De Takats, P. G., and Reynolds, J. L. (1997) Role and regulation of phospholipase D activity in normal and cancer cells. <i>Advances in Enzyme Regulation</i> 37, 29-34			<input type="checkbox"/>	<input type="checkbox"/>

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		Olson, S. C., and Lambeth, J. D. (1996) Biochemistry and cell biology of phospholipase D in human neutrophils. <i>Chem. Phys. Lipids</i> 80, 3-19			<input type="checkbox"/>	<input type="checkbox"/>
		Steed, P. M., Clark, K. L., Boyar, W. C., and Lasala, D. J. (1998) Characterization of human PLD2 and the analysis of PLD isoform splice variants. <i>FASEB J.</i> 12, 1309-1317			<input type="checkbox"/>	<input type="checkbox"/>
		Martin, A., Saqib, K. M., Hodgkin, M. N., Brown, F. D., Pettit, T. R., Armstrong, S., and Wakelam, M. J. O. (1997) Role and regulation of phospholipase D signalling. <i>Biochem. Soc. Trans.</i> 25, 1157-1160			<input type="checkbox"/>	<input type="checkbox"/>
		Levy, B. D., Petasis, N. A., and Serhan, C. N. (1997) Polyisoprenyl phosphates in intracellular signalling. <i>Nature</i> 389, 985-989			<input type="checkbox"/>	<input type="checkbox"/>
		Agwu, D. E., McPhail, L. C., Sozzani, S., Bass, D. A., and McCall, C. E. (1991) Phosphatidic acid as a second messenger in human polymorphonuclear leukocytes. Effects on activation of NADPH oxidase. <i>J. Clin. Invest.</i> 88, 531-539			<input type="checkbox"/>	<input type="checkbox"/>
		Pettit, T. R., Martin, A., Horton, T., Liossis, C., Lord, J. M., and Wakelam, M. J. O. (1997) Diacylglycerol and phosphatidate generated by phospholipases C and D, respectively, have distinct fatty acid compositions and functions. <i>J. Biol. Chem.</i> 272, 17354-17359			<input type="checkbox"/>	<input type="checkbox"/>
		Gomez-Cambronero, J. (1995) Immunoprecipitation of a phospholipase D activity with antiphosphotyrosine antibodies. <i>J. Interferon Cytokine Res.</i> 15, 877-885			<input type="checkbox"/>	<input type="checkbox"/>
		Abousalham, A., Riviere, M., Teissere, M., and Verger, R. (1993) Improved purification and biochemical characterization of phospholipase D from cabbage. <i>Biochim. Biophys. Acta</i> 1158, 1-7			<input type="checkbox"/>	<input type="checkbox"/>
		Zhou, H.-L., Chabot-Fletcher, M., Foley, J. J., Sarau, H. M., Tzimas, M. N., Winkler, J. D., and Torphy, T. J. (1993) Association between leukotriene B ₄ -induced phospholipase D activation and degranulation of human neutrophils. <i>Biochem. Pharmacol.</i> 46, 139-148			<input type="checkbox"/>	<input type="checkbox"/>
		Shechter, I., Fogelman, A. M., and Popjak, G. (1980) A deficiency of mixed function oxidase activities in the cholesterol biosynthetic pathway of human granulocytes. <i>J. Lipid Res.</i> 21, 277-283			<input type="checkbox"/>	<input type="checkbox"/>
		Rabinowitz, J. L., Baker, D. G., Villanueva, T. G., Asanza, A. P., and Capuzzi, D. M. (1992) Liver lipid profiles of adults taking therapeutic doses of aspirin. <i>Lipids</i> 27, 311-314			<input type="checkbox"/>	<input type="checkbox"/>
		Claria, J., and Serhan, C. N. (1995) Aspirin triggers previously undescribed bioactive eicosanoids by human endothelial cell-leukocyte interactions. <i>Proc. Natl. Acad. Sci.</i> 92, 9475-9479			<input type="checkbox"/>	<input type="checkbox"/>
		Serhan, C. N. (1997) Lipoxins and Novel Aspirin-Triggered 15-epi-Lipoxins: A Jungle of Cell-Cell Interactions or a Therapeutic Opportunity? <i>Prostaglandins</i> 53, 107-137			<input type="checkbox"/>	<input type="checkbox"/>
		Exton, J. H. (1997) New developments in phospholipase D. <i>J. Biol. Chem.</i> 272, 15579-15582			<input type="checkbox"/>	<input type="checkbox"/>
		Fensome, A., Whatmore, J., Morgan, C., Jones, D., and Cockcroft, S. (1998) ADP-ribosylation factor and Rho proteins mediate fMLP-dependent activation of phospholipase D in human neutrophils. <i>J. Biol. Chem.</i> 273, 13157-13164			<input type="checkbox"/>	<input type="checkbox"/>

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OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS								
		Jarstfer, M. B., Blagg, B. S. J., Rogers, D. H., and Poulter, C. D. (1996) Biosynthesis of squalene. Evidence for a tertiary cyclopropylcarbinyl cationic intermediate in the rearrangement of presqualene diphosphate to squalene. <i>J. Amer. Chem. Soc.</i> 118, 13089-13090					<input type="checkbox"/>	<input type="checkbox"/>
		Bach, T. J. (1995) Some new aspects of isoprenoid biosynthesis in plants --a review. <i>Lipids</i> 30, 191-202					<input type="checkbox"/>	<input type="checkbox"/>
		Serhan et al., "Aspirin-Triggered 15-EPI-Lipoxin A ₄ and Novel Lipoxin B ₄ Stable Analogs Inhibit Neutrophil-Mediated Changes in Vascular Permeability," <i>Advances in Experimental Medicine and Biology</i> , Vol. 469, 1999, pgs. 287-293					<input type="checkbox"/>	<input type="checkbox"/>
		Gewirtz et al., "Pathogen-Induced Chemokine Secretion from Model Intestinal Epithelium is Inhibited by Lipoxin A ₄ Analogs", <i>Journal of Clinical Investigation</i> , Vol. 101, No. 9, May 1998, pgs. 1860-1869					<input type="checkbox"/>	<input type="checkbox"/>
		Hansson et al., "Activation of Protein Kinase C By Lipoxin A and Other Eicosanoids. Intracellular Action of Oxygenation Products of Arachidonic Acid", <i>Biochemical and Biophysical Research Communications</i> , Vol. 134, No. 3, 1986, pgs. 1215-1222					<input type="checkbox"/>	<input type="checkbox"/>
		Olson et al., "Biochemistry and cell biology of phospholipase D in human neutrophils", <i>Chemistry and Physics of Lipids</i> , 80, pp. 3-19, 1996					<input type="checkbox"/>	<input type="checkbox"/>
		Takano et al., "Neutrophil-mediated Changes in Vascular Permeability Are Inhibited by Topical Application of Aspirin-triggered 15-epi-lipoxin A ₄ and Novel Lipoxin B ₄ Stable Analogues", <i>J. Clin. Invest.</i> Volume 101, Number 4, February 1998, pp. 819-826					<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
EXAMINER SIGNATURE				DATE CONSIDERED				
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								

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		US- 6,353,026	3-2002	Serhan	
		US- 6,458,839	10-2002	Madara et al.	
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		Pettit, T. R., Martin, A., Horton, T., Liossis, C., Lord, J. M., and Wakelam, M. J. O. (1997) Diacylglycerol and phosphatidate generated by phospholipases C and D, respectively, have distinct fatty acid compositions and functions. <i>J. Biol. Chem.</i> 272, 17354-17359			<input type="checkbox"/>	<input type="checkbox"/>
		Gomez-Cambronero, J. (1995) Immunoprecipitation of a phospholipase D activity with antiphosphotyrosine antibodies. <i>J. Interferon Cytokine Res.</i> 15, 877-885			<input type="checkbox"/>	<input type="checkbox"/>
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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number		10/762,388	
				Filing Date		January 22, 2004	
				First Named Inventor		James L. Madara	
				Art Unit		Unknown	
				Examiner Name		Unknown	
Sheet	4	of	4	Attorney Docket Number		7210.03	
OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS							
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						<input type="checkbox"/>	<input type="checkbox"/>
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